



October 8, 2024

**New Mexico Oil Conservation Division**

New Mexico Energy, Minerals, and Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Closure Request  
MCA Unit #386  
Incident Number nPAC0633334203  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* to document site assessment and soil sampling activities performed at the MCA Unit #386 release (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacted soil resulting from a historical release of produced water at the Site. Based on the assessment activities and soil sample laboratory analytical results, Maverick is requesting closure for Incident Number nPAC0633334203.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit F, Section 29, Township 17 South, Range 32 East, in Lea County, New Mexico (32.807742, -103.790043) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On November 15, 2006, corrosion of an injection line resulted in the release of approximately 25 barrels (bbls) of produced water into the adjacent pasture. The previous operator, ConocoPhillips Company, reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on November 17, 2006. The release was assigned Incident Number nPAC0633334203.

**SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization are summarized below and detailed in the NMOCD permitting portal. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well/soil boring data. The closest soil boring with depth to groundwater data is soil boring DTW 01 located approximately 0.6 miles north of the Site. The soil boring was drilled during August 2023 to a depth of 106 feet bgs. A field geologist logged and described soils continuously. The borehole lithologic log is included in Appendix A. No groundwater was encountered

Maverick Permian, LLC  
Closure Request  
MCA Unit #386

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in the borehole to a depth of 106 feet bgs. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater is greater than 106 feet bgs. The borehole was properly abandoned using hydrated bentonite chips. The referenced well record is included in Appendix A. All wells used for depth to groundwater determination are presented on Figure 1.

The closest continuously flowing or significant watercourse is greater than 300 feet from the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC.

## **SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS**

The release occurred in 2006 while the Site was operated by ConocoPhillips Company. The initial Form C-141 indicates that a 30-foot by 300-foot area of sandy pasture was impacted by the release and that remediation of impacted soil would be completed in accordance with NMOCD requirements. No subsequent documentation of the remediation activities was available.

Maverick contracted Ensolum to complete assessment activities at the Site to evaluate the historical release area based on information available in the NMOCD records and visual observations. No visible indications of the historical release were identified during the Site visit. The area of investigation was determined based on the release description, a review historical satellite imagery, and the topography/surface flow direction at the Site. Soil samples SS01 through SS10 were collected within and around the investigation area from a depth of 0.25 feet bgs to assess the surface soil in the inferred historical release area. Boreholes were advanced via hand auger within the investigation area at the locations of surface samples SS06 through SS10 to assess for the presence or absence of impacted soil. The boreholes were advanced to a depth of 2.5 feet bgs. Soil from the boreholes was field screened for volatile aromatic hydrocarbons (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. Based on the absence of elevated field screening results, soil samples were collected from a depth of 2.5 feet bgs for laboratory analysis from each borehole. The investigation area and assessment soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

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The assessment soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Cardinal Laboratories for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 4500.

Laboratory analytical results for assessment soil samples SS01 through SS10, collected at depths ranging from 0.25 feet to 2.5 feet bgs, indicated that all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix C.

## RECLAMATION ACTIVITIES

Remediation and reclamation activities were completed historically by the previous operator. No information was available regarding backfill activities or seeding; however, the release area matches the surrounding topography and vegetation cover and composition in the pasture area appear consistent with the surrounding undisturbed land.

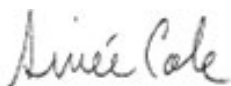
## CLOSURE REQUEST

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from a historical release of produced water at the Site. No visible indications of the release were identified at the Site and laboratory analytical results for the assessment soil samples, collected within and around the inferred historical release area, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Based on the laboratory analytical results, no further remediation is required.

Initial response efforts, historical remediation activities, and natural attenuation have mitigated impacts at this Site. Depth to groundwater was estimated to be greater than 100 feet bgs at the Site and no sensitive receptors were identified near the release extent. Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident nPAC0633334203.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or [acole@ensolum.com](mailto:acole@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Aimee Cole  
Senior Managing Scientist

cc: Bryce Wagoner, Maverick Natural Resources  
Bureau of Land Management



Maverick Permian, LLC  
Closure Request  
MCA Unit #386

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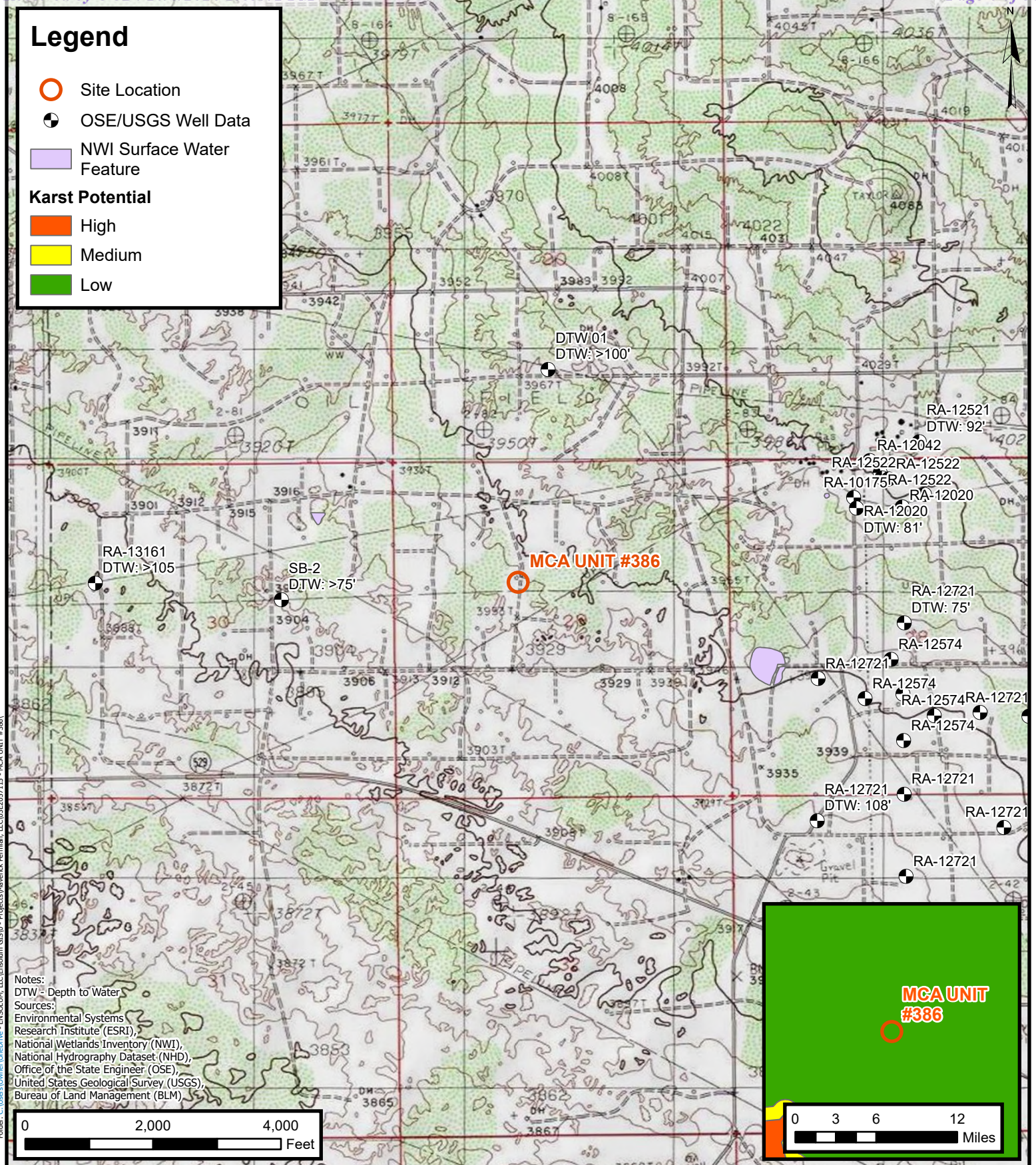
Appendices:

Figure 1	Site Receptor Map
Figure 2	Soil Sample Location Map
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain of Custody Documentation
Appendix D	Form C-141



FIGURES

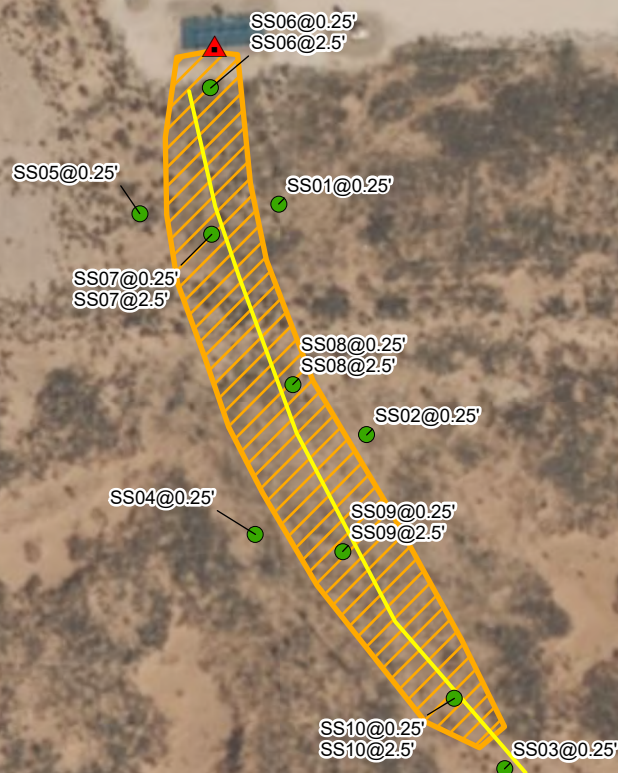






## Legend

- Assessment Soil Sample in Compliance with Closure Criteria
- ▲ Point of Release (POR)
- Flowline
- ▨ Area of Investigation



Notes:  
Sample ID @ Depth Below Ground Surface.

0 20 40 80 120 160  
Feet

Sources: Environmental Systems Research Institute (ESRI)



## Soil Sample Location Map

Maverick Permian, LLC  
MCA UNIT #386  
Incident Number: nPAC063334203  
F-29-17S-32E  
Lea County, New Mexico

**FIGURE**  
**2**



TABLES





TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS MCA Unit #386 Maverick Permian, LLC Lea County, New Mexico										
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
NMOCD Reclamation Requirement for the top four feet			NE	NE	NE	NE	NE	NE	100	600
Assessment Soil Samples										
SS01	06/11/2024	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	06/11/2024	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS03	06/11/2024	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS04	06/11/2024	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS05	06/11/2024	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS06	06/11/2024	0.25	<0.050	<0.300	<10.0	<10.0	12.6	12.6	12.6	16.0
SS06	09/26/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS07	06/11/2024	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS07	09/26/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS08	06/11/2024	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS08	09/26/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS09	06/11/2024	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS09	09/26/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SS10	06/11/2024	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS10	09/26/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

Notes:  
bgs: below ground surface  
mg/kg: milligrams per kilogram  
NMOCD: New Mexico Oil Conservation Division  
NMAC: New Mexico Administrative Code  
NA: Not Analyzed  
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics  
DRO: Diesel Range Organics  
ORO: Oil Range Organics  
TPH: Total Petroleum Hydrocarbon



## APPENDIX A

### Referenced Well Records

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								Sample Name: DTW 01		Date: 08/28/2023	
								Site Name: MCA 266			
								Incident Number: NAPP2213642290			
								Job Number: 03D2057011			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Julianna Falcomata		Method: Hollow Stem	
								Hole Diameter: 5"		Total Depth: 106'	
Comments: Soil boring was advanced to a total depth of 106' bgs. No water was observed within the soil boring after at least 72 hours. On 09/08/2023 the soil boring was plugged and abandoned using hydrated bentonite chips.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	-	-	N	-	-	10	SP-SM	(10') SAND: fine grained silty sand, poorly graded, tan to medium brown, non plastic, non cohesive, no odor.			
Dry	-	-	N	-	-	20	SP-SM	(20') SAND: fine grained silty sand, trace amounts small gravel, poorly graded, tan to reddish brown, non plastic, non cohesive, no odor.			
Dry	-	-	N	-	-	30	SP-SM	(30') SAND: fine grained silty sand, moderate amounts small to medium gravel, poorly graded, reddish brown, non plastic, non cohesive, no			
Dry	-	-	N	-	-	40	SP-SM	(40') SAND: SAA with trace amounts of CHT like material			
Dry	-	-	N	-	-	50	SP-SM	(50') SAND: fine grained silty sand, trace amounts small gravel, poorly graded, reddish brown, non plastic, non cohesive, no odor.			
Dry	-	-	N	-	-	60	SP-SM	(60') SAND: fine grained silty sand, trace amounts small gravel, poorly graded, medium brown, non plastic, non cohesive, no odor.			
Dry	-	-	N	-	-	70	SP-SM	(70') SAND: fine grained silty sand, trace amounts small gravel, poorly graded, medium brown to dark grey, non plastic, non cohesive, no odor.			
Dry	-	-	N	-	-	80	GP-GM	(80') GRAVEL: medium grained, trace amount silty sand, poorly graded, dark grey to light grey, non plastic, non cohesive, no odor.			
Dry	-	-	N	-	-	90	GP-GM	(90') GRAVEL: medium grained, trace amount silty sand, poorly graded, light grey to medium brown, non plastic, non cohesive, no odor.			
Dry	-	-	N	-	-	100	SP-SM	(100') SAND: fine grained, trace amount small to medium gravel, poorly graded, medium brown, non plastic, non cohesive, no odor.			
Dry	-	-	N	-	-	106	SP-SM	(106') SAND: fine grained, trace amount small to medium gravel, poorly graded, dark brown, non plastic, non cohesive, no odor.			
<b>Total Depth @ 106 feet bgs</b>											






# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	RA 12721 POD1	3	2	3	28	17S	32E	614645	3630141 

<b>Driller License:</b> 1456	<b>Driller Company:</b> WHITE DRILLING COMPANY		
<b>Driller Name:</b> JOHN W WHITE			
<b>Drill Start Date:</b> 04/18/2019	<b>Drill Finish Date:</b> 04/19/2019	<b>Plug Date:</b> 04/19/2019	
<b>Log File Date:</b> 05/15/2019	<b>PCW Rcv Date:</b>	<b>Source:</b>	
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>	
<b>Casing Size:</b> 2.00	<b>Depth Well:</b> 125 feet	<b>Depth Water:</b>	

Casing Perforations:	Top	Bottom
	85	125

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/12/24 9:02 AM

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POD SUMMARY - RA 12721 POD1



## APPENDIX B

### Photographic Log

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**Photographic Log**

Maverick Permian, LLC

MCA Unit #386

Incident Number nPAC0633334203

Date & Time: Tue, Jun 11, 2024 at 11:18:03 MDT  
Position: +032.80752° / -103.789917° (±15.1ft)  
Altitude: 3962ft (±11.6ft)  
Datum: WGS-84  
Azimuth/Bearing: 176° S06E 3129mils True (±12°)  
Elevation Angle: -06.0°  
Horizon Angle: +00.6°  
Zoom: 0.5X



Photograph 1 Date: 6/11/2024  
Description: Historical release area  
View: Southeast

Date & Time: Tue, Jun 11, 2024 at 11:18:41 MDT  
Position: +032.807643° / -103.789989° (±15.6ft)  
Altitude: 3956ft (±10.9ft)  
Datum: WGS-84  
Azimuth/Bearing: 166° S14E 2951mils True (±12°)  
Elevation Angle: -03.5°  
Horizon Angle: +01.8°  
Zoom: 0.5X



Photograph 2 Date: 6/11/2024  
Description: Historical release area  
View: Southeast

Date & Time: Tue, Jun 11, 2024 at 11:18:56 MDT  
Position: +032.807575° / -103.789934° (±15.6ft)  
Altitude: 3953ft (±0.9ft)  
Datum: WGS-84  
Azimuth/Bearing: 214° S34W 3902mils True (±12°)  
Elevation Angle: -10.9°  
Horizon Angle: -02.6°  
Zoom: 0.5X



Photograph 3 Date: 6/11/2024  
Description: Historical release area  
View: Southwest

Date & Time: Tue, Jun 11, 2024 at 11:19:50 MDT  
Position: +032.807410° / -103.790028° (±15.7ft)  
Altitude: 3953ft (±10.9ft)  
Datum: WGS-84  
Azimuth/Bearing: 061° N61E 1082mils True (±12°)  
Elevation Angle: +03.2°  
Horizon Angle: +00.5°  
Zoom: 0.5X



Photograph 4 Date: 6/11/2024  
Description: Historical release area  
View: Northeast





## APPENDIX C

### Laboratory Analytical Reports & Chain of Custody Documentation

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 17, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 386

Enclosed are the results of analyses for samples received by the laboratory on 06/11/24 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 06/11/2024  
 Reported: 06/17/2024  
 Project Name: MCA 386  
 Project Number: 03E2057115  
 Project Location: MAVERICK 32.8075676,-103.7907257

Sampling Date: 06/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 01 0.25' (H243387-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	7.43	
Toluene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	5.41	
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.81	96.9	6.00	2.56	
Total BTX	<0.300	0.300	06/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2024	ND	198	99.2	200	5.20	
DRO >C10-C28*	<10.0	10.0	06/13/2024	ND	201	100	200	6.01	
EXT DRO >C28-C36	<10.0	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 06/11/2024  
 Reported: 06/17/2024  
 Project Name: MCA 386  
 Project Number: 03E2057115  
 Project Location: MAVERICK 32.8075676,-103.7907257

Sampling Date: 06/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 02 0.25' (H243387-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	7.43		
Toluene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	5.41		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	2.00	100	2.00	3.00		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.81	96.9	6.00	2.56		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/14/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2024	ND	198	99.2	200	5.20	
DRO >C10-C28*	<10.0	10.0	06/13/2024	ND	201	100	200	6.01	
EXT DRO >C28-C36	<10.0	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 06/11/2024  
 Reported: 06/17/2024  
 Project Name: MCA 386  
 Project Number: 03E2057115  
 Project Location: MAVERICK 32.8075676,-103.7907257

Sampling Date: 06/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 03 0.25' (H243387-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	7.43	
Toluene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	5.41	
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.81	96.9	6.00	2.56	
Total BTEX	<0.300	0.300	06/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/14/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2024	ND	198	99.2	200	5.20	
DRO >C10-C28*	<10.0	10.0	06/13/2024	ND	201	100	200	6.01	
EXT DRO >C28-C36	<10.0	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 06/11/2024  
 Reported: 06/17/2024  
 Project Name: MCA 386  
 Project Number: 03E2057115  
 Project Location: MAVERICK 32.8075676,-103.7907257

Sampling Date: 06/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 04 0.25' (H243387-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	7.43		
Toluene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	5.41		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	2.00	100	2.00	3.00		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.81	96.9	6.00	2.56		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/14/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2024	ND	198	99.2	200	5.20	
DRO >C10-C28*	<10.0	10.0	06/13/2024	ND	201	100	200	6.01	
EXT DRO >C28-C36	<10.0	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 06/11/2024  
 Reported: 06/17/2024  
 Project Name: MCA 386  
 Project Number: 03E2057115  
 Project Location: MAVERICK 32.8075676,-103.7907257

Sampling Date: 06/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 05 0.25' (H243387-05)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	7.43	
Toluene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	5.41	
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.81	96.9	6.00	2.56	
Total BTEX	<0.300	0.300	06/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/14/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2024	ND	198	99.2	200	5.20	
DRO >C10-C28*	<10.0	10.0	06/13/2024	ND	201	100	200	6.01	
EXT DRO >C28-C36	<10.0	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 06/11/2024  
 Reported: 06/17/2024  
 Project Name: MCA 386  
 Project Number: 03E2057115  
 Project Location: MAVERICK 32.8075676,-103.7907257

Sampling Date: 06/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 06 0.25' (H243387-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	7.43	
Toluene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	5.41	
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.81	96.9	6.00	2.56	
Total BTEX	<0.300	0.300	06/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/14/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2024	ND	198	99.2	200	5.20	
DRO >C10-C28*	<10.0	10.0	06/13/2024	ND	201	100	200	6.01	
EXT DRO >C28-C36	12.6	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 06/11/2024  
 Reported: 06/17/2024  
 Project Name: MCA 386  
 Project Number: 03E2057115  
 Project Location: MAVERICK 32.8075676,-103.7907257

Sampling Date: 06/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 07 0.25' (H243387-07)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	7.43	
Toluene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	5.41	
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.81	96.9	6.00	2.56	
Total BTEX	<0.300	0.300	06/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/14/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2024	ND	198	99.2	200	5.20	
DRO >C10-C28*	<10.0	10.0	06/13/2024	ND	201	100	200	6.01	
EXT DRO >C28-C36	<10.0	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 06/11/2024  
 Reported: 06/17/2024  
 Project Name: MCA 386  
 Project Number: 03E2057115  
 Project Location: MAVERICK 32.8075676,-103.7907257

Sampling Date: 06/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 08 0.25' (H243387-08)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	7.43	
Toluene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	5.41	
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.81	96.9	6.00	2.56	
Total BTEX	<0.300	0.300	06/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/14/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2024	ND	198	99.2	200	5.20	
DRO >C10-C28*	<10.0	10.0	06/13/2024	ND	201	100	200	6.01	
EXT DRO >C28-C36	<10.0	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 06/11/2024  
 Reported: 06/17/2024  
 Project Name: MCA 386  
 Project Number: 03E2057115  
 Project Location: MAVERICK 32.8075676,-103.7907257

Sampling Date: 06/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 09 0.25' (H243387-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	7.43		
Toluene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	5.41		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	2.00	100	2.00	3.00		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.81	96.9	6.00	2.56		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/14/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2024	ND	198	99.2	200	5.20	
DRO >C10-C28*	<10.0	10.0	06/13/2024	ND	201	100	200	6.01	
EXT DRO >C28-C36	<10.0	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 06/11/2024  
 Reported: 06/17/2024  
 Project Name: MCA 386  
 Project Number: 03E2057115  
 Project Location: MAVERICK 32.8075676,-103.7907257

Sampling Date: 06/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 10 0.25' (H243387-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	7.43		
Toluene*	<0.050	0.050	06/14/2024	ND	1.94	96.8	2.00	5.41		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	2.00	100	2.00	3.00		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.81	96.9	6.00	2.56		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/14/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2024	ND	198	99.2	200	5.20	
DRO >C10-C28*	<10.0	10.0	06/13/2024	ND	201	100	200	6.01	
EXT DRO >C28-C36	<10.0	10.0	06/13/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

- QM-07      The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND      Analyte NOT DETECTED at or above the reporting limit
- RPD      Relative Percent Difference
- \*\*      Samples not received at proper temperature of 6°C or below.
- \*\*\*      Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: Ensolum, LLC

Project Manager: ~~Brett Jennings~~ <sup>et</sup> Aimee Cole

Address: ~~601 W Marland Street Suite 400~~ <sup>at</sup> 3122 National Parkway

City: ~~Midland~~ <sup>at</sup> Carlsbad State: ~~NM~~ <sup>at</sup> NM Zip: ~~79701~~ <sup>at</sup> 88226

Phone #: 210-219-8858 Fax #:

Project #: 03E2057115 Project Owner: Naverick

Project Name: MEA 386

Project Location: 32.8075676, -103.7907257

Sampler Name: Inner Handy

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Ensolum

Attn: Wade Dittich

Address: 3122 National Parkway

City: Carlsbad

State: NM Zip: 88220

Phone #: 575-390-2828

Fax #:

PRESERV

SAMPLING

Lab I.D.

Sample I.D.

Depth (feet)

1243387

SS 01

0.25

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

6/11/24

10:05

10:10

10:15

10:20

10:25

10:30

10:35

10:40

10:45

10:50

10:55

11:00

11:05

11:10

11:15

11:20

11:25

11:30

11:35

11:40

11:45

11:50

11:55

12:00

12:05

12:10

12:15

12:20

12:25

12:30

12:35

12:40

BTEX

TPH

Chloride

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

One

Date: 6/11/24

Time: 1453

Received By:

Shodriquis

Date: 6/11/24

Time: 1453

Received By:

acole@ensolum.com

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

All Results are emailed. Please provide Email address:

REMARKS:

PA C0633334203

Turnaround Time:

Standard ☒ Rush ☐

Thermometer ID: 4115

Correction Factor: 0.55

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

October 01, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 386

Enclosed are the results of analyses for samples received by the laboratory on 09/26/24 15:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 09/26/2024  
 Reported: 10/01/2024  
 Project Name: MCA 386  
 Project Number: 03E2057115  
 Project Location: MAVERICK 32.8075676,-103.7907257

Sampling Date: 09/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 06 2.5 (H245879-01)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2024	ND	2.02	101	2.00	6.37	
Toluene*	<0.050	0.050	09/28/2024	ND	2.20	110	2.00	3.27	
Ethylbenzene*	<0.050	0.050	09/28/2024	ND	2.32	116	2.00	0.625	
Total Xylenes*	<0.150	0.150	09/28/2024	ND	7.03	117	6.00	0.101	
Total BTEX	<0.300	0.300	09/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2024	ND	184	91.9	200	1.38	
DRO >C10-C28*	<10.0	10.0	09/28/2024	ND	190	94.8	200	1.11	
EXT DRO >C28-C36	<10.0	10.0	09/28/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 09/26/2024  
 Reported: 10/01/2024  
 Project Name: MCA 386  
 Project Number: 03E2057115  
 Project Location: MAVERICK 32.8075676,-103.7907257

Sampling Date: 09/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 07 2.5 (H245879-02)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2024	ND	2.02	101	2.00	6.37	
Toluene*	<0.050	0.050	09/28/2024	ND	2.20	110	2.00	3.27	
Ethylbenzene*	<0.050	0.050	09/28/2024	ND	2.32	116	2.00	0.625	
Total Xylenes*	<0.150	0.150	09/28/2024	ND	7.03	117	6.00	0.101	
Total BTX	<0.300	0.300	09/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2024	ND	184	91.9	200	1.38	
DRO >C10-C28*	<10.0	10.0	09/28/2024	ND	190	94.8	200	1.11	
EXT DRO >C28-C36	<10.0	10.0	09/28/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 09/26/2024  
 Reported: 10/01/2024  
 Project Name: MCA 386  
 Project Number: 03E2057115  
 Project Location: MAVERICK 32.8075676,-103.7907257

Sampling Date: 09/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 08 2.5 (H245879-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2024	ND	2.02	101	2.00	6.37	
Toluene*	<0.050	0.050	09/28/2024	ND	2.20	110	2.00	3.27	
Ethylbenzene*	<0.050	0.050	09/28/2024	ND	2.32	116	2.00	0.625	
Total Xylenes*	<0.150	0.150	09/28/2024	ND	7.03	117	6.00	0.101	
Total BTEX	<0.300	0.300	09/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2024	ND	184	91.9	200	1.38	
DRO >C10-C28*	<10.0	10.0	09/28/2024	ND	190	94.8	200	1.11	
EXT DRO >C28-C36	<10.0	10.0	09/28/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03      The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- ND      Analyte NOT DETECTED at or above the reporting limit
- RPD      Relative Percent Difference
- \*\*      Samples not received at proper temperature of 6°C or below.
- \*\*\*      Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:		ANALYSIS REQUEST																																													
Project Manager: Aimee Cole		City: Carlsbad		State: NM		Zip: 88220		Company: Ensolum, LLC																																									
Address: 3122 National Parks Hwy		Phone #: (720) 384-7365		Fax #: 384-7365		Project Owner: MCA Unit #386		City: Carlsbad		State: NM		Zip: 88220																																					
Project #: 0352057115		Project Name: MCA Unit #386		Project Location: 32.8075676, -103.7907257		Sample Name: Mario Sacks		City: Carlsbad		State: NM		Zip: 88220																																					
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		BTEX		TPH		Chlorides											
		H25879		5506		2.5		G1		1																				9/26/24		1030																	
		3		5507		2.5		G1		1																				1042																			
				5508		2.5		G1		1																																							
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																																																	
Relinquished By:		Date: 9/26/24		Time: 1548		Received By: [Signature]		Date: 9/26/24		Time: 1548		Received By: [Signature]		REMARKS: acole@ensolum.com/mario.sacks@ensolum.com																																			
Delivered By: (Circle One)		Observed Temp.: 54.0°C		Corrected Temp.: 1.8°C		Sample Condition		Cool		Intact		CHECKED BY: (Initials)		Turnaround Time: Standard Rush																																			
Sampler - UPS - Bus - Other:		Cool		Yes		No		Intact		Yes		No		Bacteria (only) Sample Condition																																			
		Cool		Yes		No		Intact		Yes		No		Cool Intact																																			
		Cool		Yes		No		Intact		Yes		No		Observed Temp. °C																																			
		Cool		Yes		No		Intact		Yes		No		Corrected Temp. °C																																			



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

October 01, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 386

Enclosed are the results of analyses for samples received by the laboratory on 09/26/24 15:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 09/26/2024  
 Reported: 10/01/2024  
 Project Name: MCA 386  
 Project Number: 03E2057115  
 Project Location: MAVERICK 32.8075676,-103.7907257

Sampling Date: 09/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 09 2.5' (H245880-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2024	ND	2.02	101	2.00	6.37	
Toluene*	<0.050	0.050	09/28/2024	ND	2.20	110	2.00	3.27	
Ethylbenzene*	<0.050	0.050	09/28/2024	ND	2.32	116	2.00	0.625	
Total Xylenes*	<0.150	0.150	09/28/2024	ND	7.03	117	6.00	0.101	
Total BTX	<0.300	0.300	09/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2024	ND	184	91.9	200	1.38	
DRO >C10-C28*	<10.0	10.0	09/28/2024	ND	190	94.8	200	1.11	
EXT DRO >C28-C36	<10.0	10.0	09/28/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 09/26/2024  
 Reported: 10/01/2024  
 Project Name: MCA 386  
 Project Number: 03E2057115  
 Project Location: MAVERICK 32.8075676,-103.7907257

Sampling Date: 09/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 10 2.5' (H245880-02)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2024	ND	2.02	101	2.00	6.37	
Toluene*	<0.050	0.050	09/28/2024	ND	2.20	110	2.00	3.27	
Ethylbenzene*	<0.050	0.050	09/28/2024	ND	2.32	116	2.00	0.625	
Total Xylenes*	<0.150	0.150	09/28/2024	ND	7.03	117	6.00	0.101	
Total BTX	<0.300	0.300	09/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2024	ND	184	91.9	200	1.38	
DRO >C10-C28*	<10.0	10.0	09/28/2024	ND	190	94.8	200	1.11	
EXT DRO >C28-C36	<10.0	10.0	09/28/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- QR-03      The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- ND      Analyte NOT DETECTED at or above the reporting limit
- RPD      Relative Percent Difference
- \*\*      Samples not received at proper temperature of 6°C or below.
- \*\*\*      Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:		ANALYSIS REQUEST	
Project Manager: Aimee Cole		Company: Ensolum, LLC			
Address: 3122 National Parks Hwy		Attn: Aimee Cole			
City: Carlsbad		State: NM Zip: 88220			
Phone #: (720) 384-7365		Fax #:			
Project #: 03E2057115		Project Owner:			
Project Name: MCA Unit #386		City:			
Project Location: 32,8075676,-103,7407257		State: Zip:			
Sample Name: MCA Sack 15		Phone #:			
FOR LAB USE ONLY		Fax #:			
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX
#45880	5509	2.5	61	1	GROUNDWATER
2	5510	2.5	61	1	WASTEWATER
					SOIL
					OIL
					SLUDGE
					OTHER :
					ACID/BASE:
					ICE / COOL
					OTHER :
					DATE
					TIME
					BTEX
					TPH
					Chlorides
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.					
Relinquished By:		Date: 9/26/24		Received By:	
Relinquished By:		Date: 9/26/24		Received By:	
Delivered By: (Circle One)		Observed Temp. °C: 54.1		Sample Condition	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: 18.2		Cool Intact	
				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
				Checked By: (Initials)	
				AB	
				Turnaround Time:	
				Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
				Thermometer ID: #1434140	
				Correction Factor: -0.5°C @ 0°C	
				Bacteria (only) Sample Condition	
				Cool Intact	
				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
				Observed Temp. °C	
				Corrected Temp. °C	
REMARKS: ac@ensolum.com/ms@ensolum.com					
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:					
All Results are emailed. Please provide Email address:					

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



APPENDIX D

Form C-141

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company <b>ConocoPhillips Company</b>	Contact <b>Kenneth N. Andersen</b>
Address <b>3300 North A St. Bldg 6, Midland, TX 79705-5406</b>	Telephone No. <b>505.391.3158</b>
Facility Name <b>MCA Unit well # 386</b>	Facility Type <b>Oil and Gas</b>

Surface Owner <b>BLM</b>	Mineral Owner <b>BLM</b>	Lease No <b>API # 30-025-31100</b>
--------------------------	--------------------------	------------------------------------

### LOCATION OF RELEASE

Unit Letter <b>F</b>	Section <b>29</b>	Township <b>17S</b>	Range <b>32E</b>	Feet from the	North/South Line	Feet from the	East/West Line	County <b>Lea</b>
-------------------------	----------------------	------------------------	---------------------	---------------	------------------	---------------	----------------	----------------------

Latitude **32.80761N** Longitude **-103.79002W**

### NATURE OF RELEASE

Type of Release <b>Produced Water W/Chlorides = ~70,000mg/L</b>	Volume of Release <b>25 bbl (0 oil, 25 water)</b>	Volume Recovered <b>(0 oil, 0 water)</b>
Source of Release <b>MCA Unit well # 386 2" Injection Line</b>	Date and Hour of Occurrence <b>11/15/2006 1400hrs</b>	Date and Hour of Discovery <b>11/15/2006 1630hrs</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Patricia A. Caperton NMOCD &amp; Jim Amos BLM via email</b>	
By Whom? <b>Ruben Canava</b>	Date and Hour <b>11/16/2006 1420hrs</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

**The leak was caused by corrosion of the 2" injection line. The line will be replaced with a new line. No fluid was recoverable.**

Describe Area Affected and Cleanup Action Taken.\*

**30'X300' of dry sandy pasture with no cows present. The spill site will be delineated and remediated in accordance with NMOCD guidelines.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Kenneth N. Andersen</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Kenneth N. Andersen</b>	Approved by District Supervisor <i>ENRIE EDEL</i>	
Title: <b>HSER PSM Lead</b>	Approval Date: <b>11-20-06</b>	Expiration Date: <b>2-20-07</b>
E-mail Address: <b>ken.n.andersen@conocophillips.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>11/17/2006</b> Phone: <b>505.391.3158</b>	<b>Submit Final C-141</b>	

- Attach Additional Sheets If Necessary

incident - nPAC063334203  
application - nPAC0633334339

RPT# 1130

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
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Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 390863

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 390863
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

<b>Prerequisites</b>	
Incident ID (n#)	nPAC0633334203
Incident Name	NPAC0633334203 MCA UNIT #386 @ 30-025-31100
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-025-31100] MCA UNIT #386

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	MCA UNIT #386
Date Release Discovered	11/15/2006
Surface Owner	Federal

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Pipeline (Any)   Produced Water   Released: 25 BBL   Recovered: 0 BBL   Lost: 25 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 390863

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	390863
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

**QUESTIONS**

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: <a href="mailto:acole@ensolum.com">acole@ensolum.com</a> Date: 10/08/2024
--	---



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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 390863

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	390863
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	208
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	12.6
GRO+DRO (EPA SW-846 Method 8015M)	12.6
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	06/11/2024
On what date will (or did) the final sampling or liner inspection occur	09/26/2024
On what date will (or was) the remediation complete(d)	09/26/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 4  
  
Action 390863

**QUESTIONS (continued)**

Operator:  Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	390863
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	<i>Not answered.</i>
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>Yes</i>
Other Non-listed Remedial Process. Please specify	<i>Unknown/Historical release.</i>
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Aimee Cole Email: <a href="mailto:acole@ensolum.com">acole@ensolum.com</a> Date: 10/08/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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**Santa Fe, NM 87505**

QUESTIONS, Page 5  
  
Action 390863

QUESTIONS (continued)

Operator:  Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:  331199
	Action Number:  390863
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

<b>Deferral Requests Only</b>	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

**District I**

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QUESTIONS, Page 6

Action 390863

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	390863
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	385652
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/26/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	2000

**Remediation Closure Request**

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Historical release / remediation activities were completed historically by a previous operator.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 10/08/2024
--	--

**District I**

1625 N. French Dr., Hobbs, NM 88240  
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**District II**

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**District III**

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Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

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Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 7

Action 390863

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	390863
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS****Reclamation Report**

Only answer the questions in this group if all reclamation steps have been completed.

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	0
What was the total volume of replacement material (in cubic yards) for this site	0

Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseedling commence(d)	09/01/2024

Summarize any additional reclamation activities not included by answers (above)	Historical release / reclamation activities were completed historically by a previous operator.
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The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseedling plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 10/08/2024
--	--



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QUESTIONS, Page 8  
  
Action 390863

QUESTIONS (continued)

Operator:  Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:  331199
	Action Number:  390863
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

<b>Revegetation Report</b>	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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**Santa Fe, NM 87505**

CONDITIONS

Action 390863

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	390863
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment; or if the location fails to revegetate properly. In addition, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	10/9/2024
amaxwell	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	10/9/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	10/9/2024